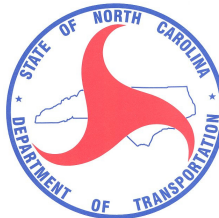


ANNUAL REPORT FOR 2009



**Windsor Bypass Mitigation Sites
Bertie County
TIP No. R-2404A**



Prepared By:
Natural Environment Unit & Roadside Environmental Unit
North Carolina Department of Transportation
August 2009

TABLE OF CONTENTS

SUMMARY	1
1.0 Introduction	2
.1 Project Description	2
.2 Purpose	2
.3 Project History	2
2.0 Vegetation:	3
.1 Success Criteria	3
.2 Description of Species.....	3
.3 Results of Vegetation Monitoring	3
.4 Conclusions.	3
3.0 Overall Conclusions and Recommendations	3

FIGURES

Figure 1 – Site Location Map	4
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APPENDICES

Appendix A – Site Photos	5
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SUMMARY

The Windsor Bypass Mitigation Sites are located in Bertie County. The sites were planted in January 2009 and were mitigated for wetland impacts associated with roadway project R-2404A.

The mitigation encompasses approximately 1.3 acres at Site 14 and 0.02 acres at Site IP#1 total of wetland restoration. The restoration effort involved the removal of the temporary detour at Site 14. The restoration effort also, involved the removal of temporary fill and removal of a pipe extension along 20 linear feet of perennial stream channel at Site IP#1. The two sites will be monitored to ensure that it re-attains wetland jurisdictional status. No hydrologic monitoring is required for this project; however, vegetation monitoring is required for three years.

After the first year of monitoring, the Windsor Bypass Mitigation Sites show by visual observation that the planted species are surviving and that the impacted area is re-attaining wetland jurisdictional status.

NCDOT proposes to continue vegetation monitoring at the Windsor Bypass Mitigation Sites.

1.0 INTRODUCTION

1.1 Project Description

The Windsor Bypass Mitigation Sites are located in Bertie County. Site 14 is located on Wakelon Road and Site IP#1 is located on a haul road for a borrow pit site just south off of Greens Cross Road. The sites consists of approximately 1.32 acres of mitigation for wetland impacts associated with roadway project R-2404A

1.2 Purpose

In order for the mitigation sites to be considered successful, the sites must meet vegetation success criteria. This report details the vegetation monitoring in 2009 at the Windsor Bypass Mitigation Sites. Hydrologic monitoring was not required for the sites.

1.3 Project History

January 2009	Sites Planted
August 2009	Vegetation Monitoring (1 year)

2.0 VEGETATION: WINDSOR BYPASS MITIGATION SITES (YEAR 1 MONITORING)

2.1 Success Criteria

Success Criteria states that the impacted areas where the onsite detour and pipe extension were removed shall be replanted using native species and must re-attain wetland jurisdictional status at the end of three years.

2.2 Description of Species

The following wetland species were planted in the Wetland Restoration Area:

Platanus occidentalis, American Sycamore

Betula nigra, River Birch

Prunus serotina, Black Cherry

2.3 Results of Vegetation Monitoring

The impacted areas where the onsite detour and pipe extension were removed and re-vegetated is re-attaining wetland jurisdictional status and the planted species are surviving.

Site Notes: Other species noted include: *Juncus* sp., sedge, red bud, sweetgum, woolgrass, fennel, smartweed, and various grasses.

2.4 Conclusions

There were approximately 1.32 acres of wetland restoration planted on site. There were no plots established on the site. By visual observation the Windsor Bypass Mitigation Sites show that the planted species are surviving and that the impacted areas are re-attaining wetland jurisdictional status.

3.0 OVERALL CONCLUSIONS AND RECOMMENDATIONS

NCDOT proposes to continue vegetation monitoring at the Windsor Bypass Mitigation Sites.

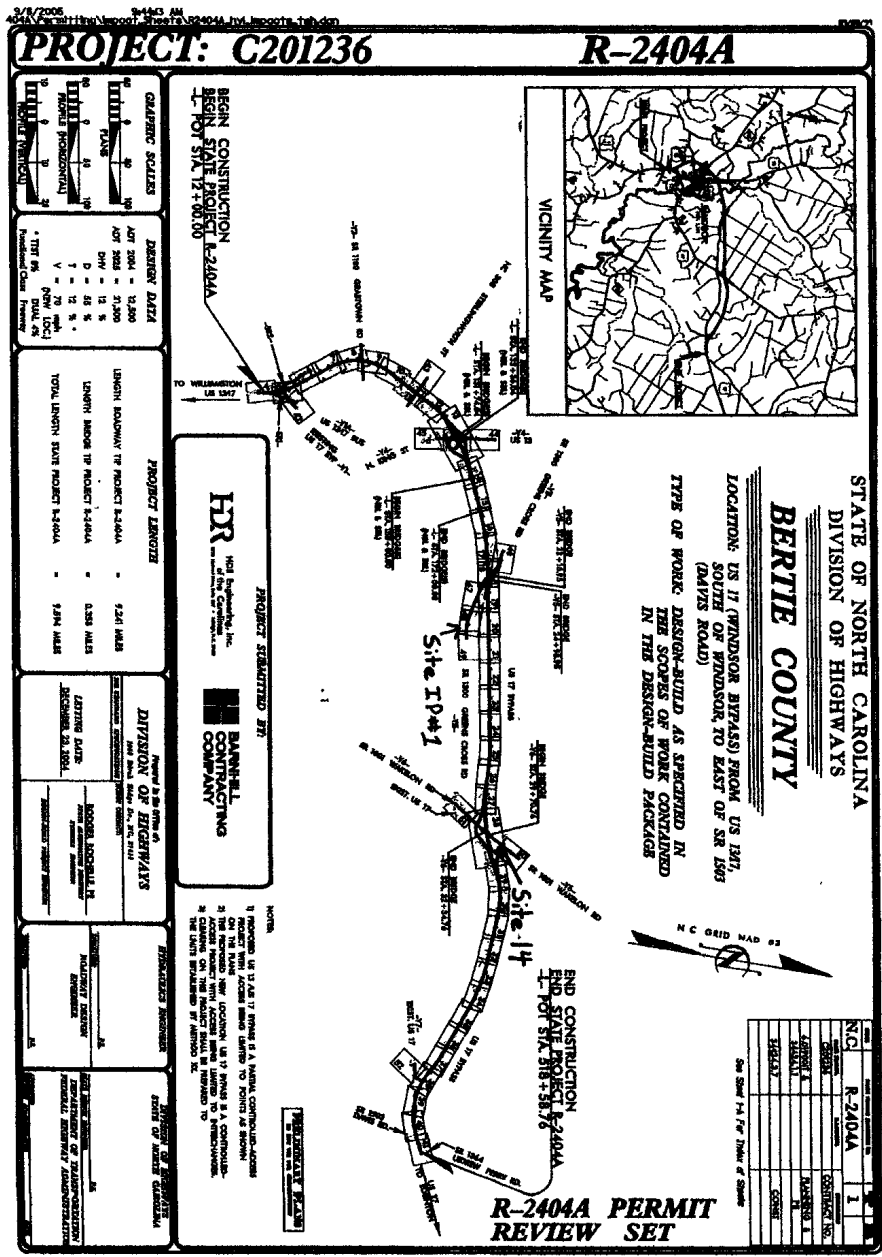


Figure 1. Site Location Map

APPENDIX A

SITE PHOTOS

Windsor Bypass Site 14



Photo 1



Photo 2



Photo 3



Photo 4

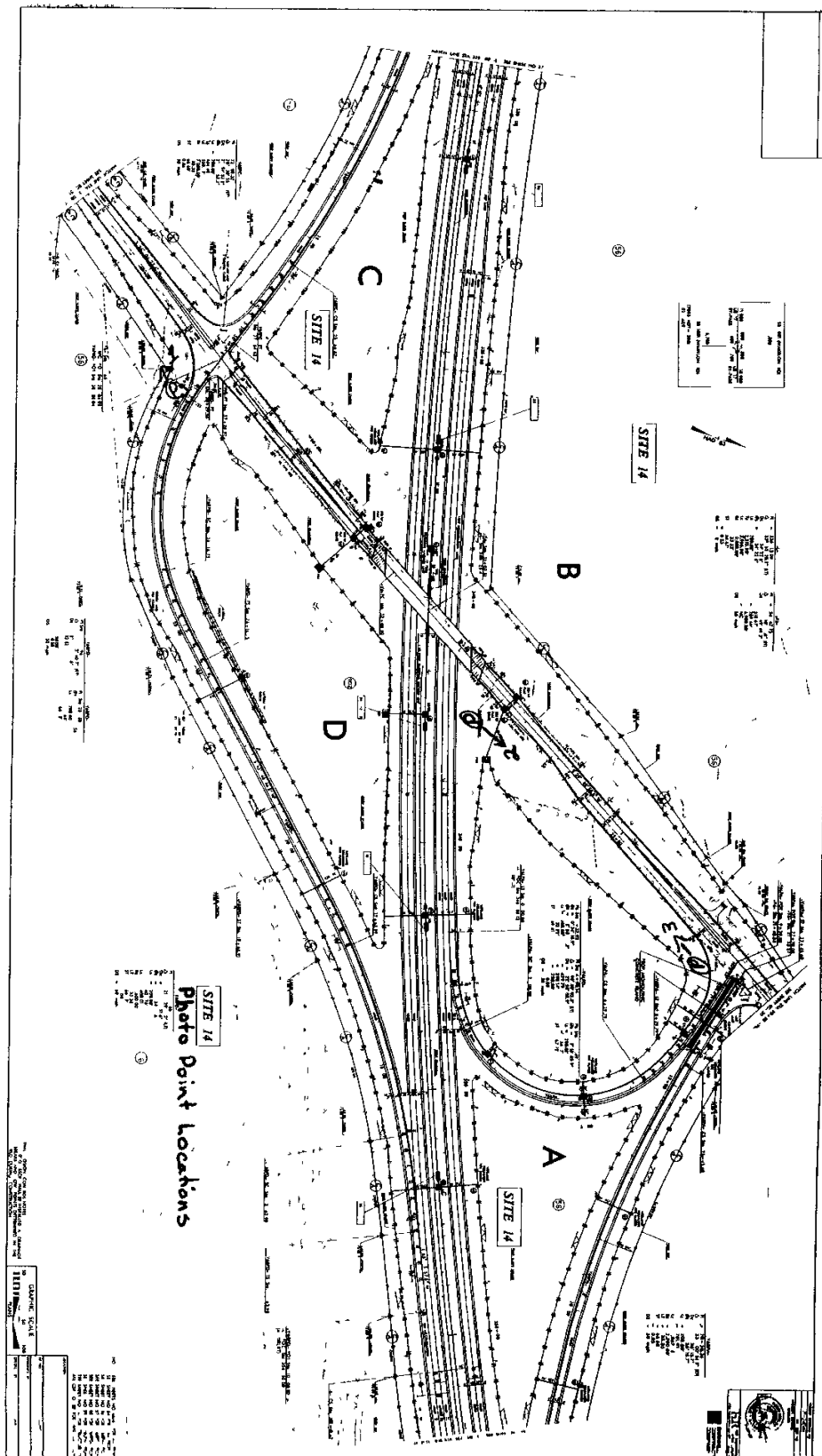


Photo 5



Photo 6

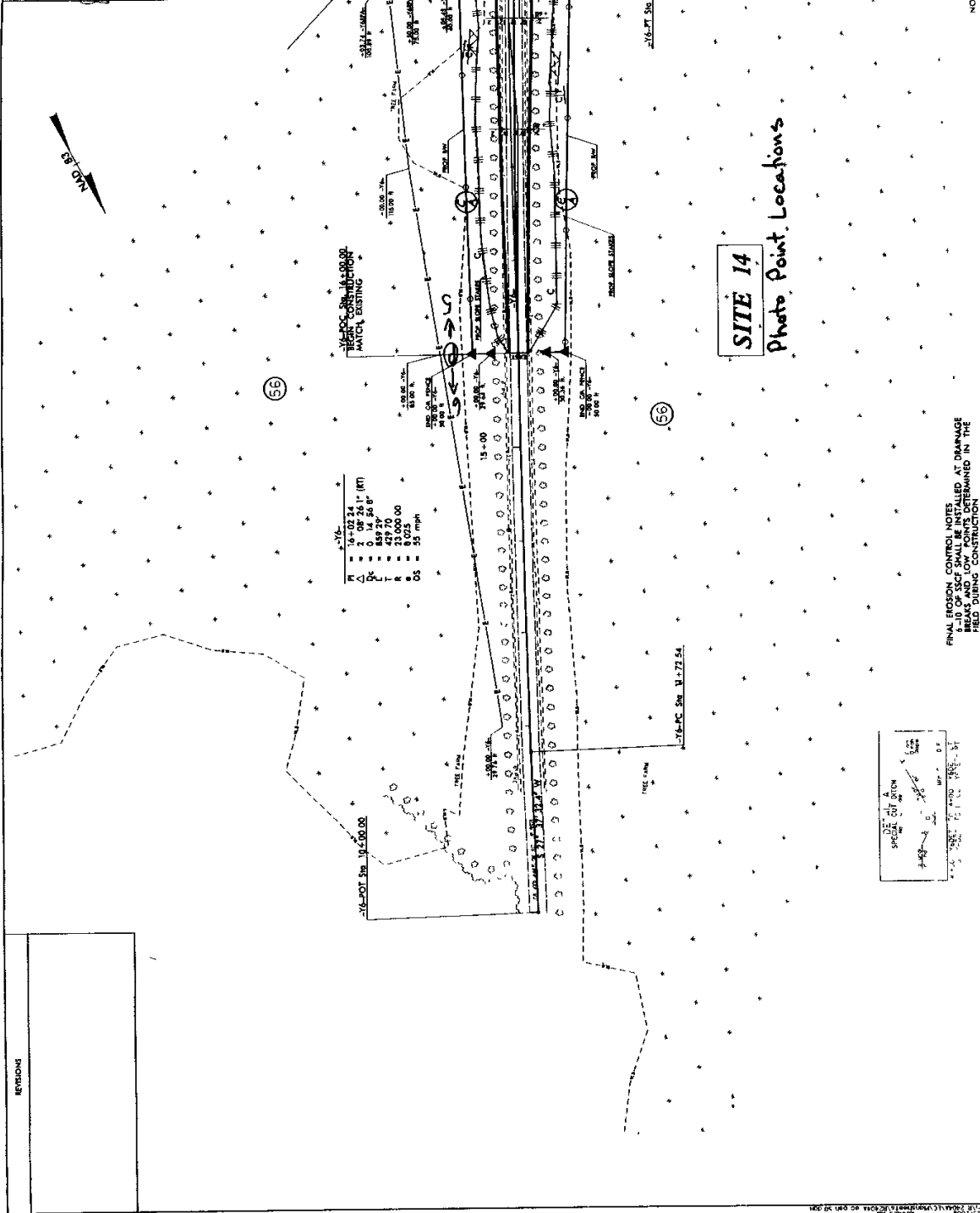
August 2009



PROJECT NUMBER NO.	1000000000
DATE	10-20-00
BY	EC-20
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	



BARRELL CONTRACTING COMPANY
 1000000000
 10-20-00



SITE 14
 Photo Point Locations

DATE	10-20-00
BY	EC-20
NO.	
DESCRIPTION	

FINAL EROSION CONTROL NOTES:
 1. EROSION CONTROL MEASURES SHALL BE INSTALLED AT DAMAGE
 BEAMS AND LOW POINTS DETERMINED IN THE
 FIELD DURING CONSTRUCTION

NOTES SEE SHEET NO. 84 FOR Y6 PROFILE

Windsor Bypass Site IP#1



Photo 1



Photo 2

August 2009